



Application Number

IDS Flag Clearance for Application 09887824



Content	Mailroom Date	Entry Number	IDS Review	Last Modified	Reviewer
WIDS	2002-02-07	59	Y <input checked="" type="checkbox"/>	2007-06-05 12:03:47.0	CR #235743
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EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	("5987443").PN.	USPAT; USOCR	OR	OFF	2007/10/15 02:05
L2	0	"receiving a goal" AND feedback AND student AND invoice AND loan AND insurance AND rules AND paragraph AND deliverable .clm.	USPAT	OR	OFF	2007/10/15 02:07
L3	0	"receiving a goal" AND feedback AND student AND invoice AND loan AND insurance AND rules AND paragraph AND deliverable .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/15 02:07

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	("5987443").PN.	USPAT; USOCR	OR	OFF	2007/10/15 02:05
L2	0	"receiving a goal" AND feedback AND student AND invoice AND loan AND insurance AND rules AND paragraph AND deliverable .clm.	USPAT	OR	OFF	2007/10/15 02:07
L3	0	"receiving a goal" AND feedback AND student AND invoice AND loan AND insurance AND rules AND paragraph AND deliverable .clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/15 02:10
L4	0	"receiving a goal" AND feedback AND student AND invoice AND loan AND insurance AND rules AND paragraph AND deliverable	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/15 02:10

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1 7,194,444 T Goal based flow of a control presentation system

2 7,089,222 **T** Goal based system tailored to the characteristics of a particular user

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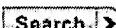
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IET JNL	IET Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IET CNF	IET Conference Proceeding
IEEE STD	IEEE Standard

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Relevance

- 1 [Charles W. Bachman interview: September 25-26, 2004; Tucson, Arizona](#)

 Thomas Haigh

[January 2006 ACM Oral History interviews](#)
Publisher: ACM Press

 Full text available:  pdf(761.66 KB)

 Additional Information: [full citation](#), [abstract](#)

Charles W. Bachman reviews his career. Born during 1924 in Kansas, Bachman attended high school in East Lansing, Michigan before joining the Army Anti Aircraft Artillery Corp, with which he spent time in the Southwest Pacific Theater, during World War II. After his discharge from the military, Bachman earned a B.Sc. in Mechanical Engineering in 1948, followed immediately by an M.Sc. in the same field from the University of Pennsylvania. On graduation, he went to work for Do ...

- 2 [Assessing data quality in accounting information systems](#)

 David Kaplan, Ramayya Krishnan, Rema Padman, James Peters
[February 1998 Communications of the ACM](#), Volume 41 Issue 2

Publisher: ACM Press

 Full text available:  pdf(249.94 KB)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

- 3 [Operating system principles](#)

 Per Brinch Hansen
 January 1973 Book

Publisher: Prentice-Hall, Inc.

 Full text available:  pdf(16.81 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

From the Preface

MAIN GOAL

This book tries to give students of computer science and professional programmers a general understanding of *operating systems*--the programs that enable people to share computers efficiently.

To make the sharing of a computer tolerable, an operating system must enforce certain rules of behavior on all its users. One would therefore expect the designers of operating systems to do their utmost to implement them as simply as possible.

- 4 [On automated message processing in electronic commerce and work support systems: specifying theory and expressive felicity](#)

 Steven O. Kimbrough, Scott A. Moore

October 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 4

Publisher: ACM Press

Full text available:  pdf(502.20 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Electronic messaging, whether in an office environment or for electronic commerce, is normally in natural language, even when supported by information systems. For a variety of reasons, it would be useful if electronic messaging systems could have semantic access to, that is, access to the meaningful contents of, the messages they process. Given that natural language understanding is not a practical alternative, there remain three approaches to delivering systems with semantic ...

Keywords: electronic commerce, formal language for business communication, speech act theory

5 Selected writings on computing: a personal perspective

Edsger W. Dijkstra

January 1982 Book

Publisher: Springer-Verlag New York, Inc.

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Since the summer of 1973, when I became a Burroughs Research Fellow, my life has been very different from what it had been before. The daily routine changed: instead of going to the University each day where I used to spend most of my time in the company of others, I now went there only one day a week and was most of the time that is, when not travelling!-- alone in my study. In my solitude, mail and written word in general became more and more important. The circumstance that my employer ...

6 Information systems outsourcing: a survey and analysis of the literature

 Jens Dibbern, Tim Goles, Rudy Hirschheim, Bandula Jayatilaka

November 2004 **ACM SIGMIS Database**, Volume 35 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.51 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In the last fifteen years, academic research on information systems (IS) outsourcing has evolved. Indeed the field of outsourcing research has grown so fast that there has been scant opportunity for the research community to take a collective breath, and complete a global assessment of research at this date. This paper seeks to address this need by exploring and synthesizing the academic literature on IS outsourcing. It offers a roadmap of the IS outsourcing literature, highlighting ...

Keywords: determinants, literature review, outcomes, outsourcing, relationships, research applications, theoretical foundations

7 The relational model for database management: version 2

E. F. Codd

January 1990 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available:  pdf(28.61 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

From the Preface (See Front Matter for full Preface)

An important adjunct to precision is a sound theoretical foundation. The relational model is solidly based on two parts of mathematics: first-order predicate logic and the theory of relations. This book, however, does not dwell on the theoretical foundations, but rather on all the features of the relational model that I perceive as important for database users, and therefore for DBMS vendors. My perceptions result in ...

8 Agent-oriented technology in support of e-business



Mike P. Papazoglou

April 2001 **Communications of the ACM**, Volume 44 Issue 4

Publisher: ACM Press

Full text available: [pdf\(145.21 KB\)](#) [html\(39.13 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on pro
ograms are often used to obtain a better understanding of the execution of the application. Th
e visualization tool we use is Poet, an event tracer developed at the University of Waterloo. Howe
ver diagrams are often very complex and do not provide the user with the desired overview of the a
In our experience, such tools display repeated occurrences of non-trivial commun ...

10 Classics in software engineering

January 1979 Divisible Book

Publisher: Yourdon Press

Additional Information: [full citation](#), [cited by](#), [index terms](#)

11 An example of management training in expert systems: SBA loan evaluation system



Sudesh M. Duggal, Paul R. Popovich

September 1990 **Proceedings of the 1990 ACM SIGBDP conference on Trends and directions in systems SIGBDP '90**

Publisher: ACM Press

Full text available: [pdf\(2.19 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

12 Smalltalk-80: the language and its implementation

Adele Goldberg, David Robson

January 1983 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available: [pdf\(33.56 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [cited by](#), [index terms](#), [review](#)

From the Preface (See Front Matter for full Preface)

Advances in the design and production of computer hardware have brought many more people into contact with computers. Similar advances in the design and production of computer software are in order that this increased contact be as rewarding as possible. The Smalltalk-80 system is a result of a decade of research into creating computer software that is appropriate for producing highly functional interactive ...

13 Frontmatter (TOC, Letters, Philosophy of computer science, Interviewers needed, Taking s



requirements creation from folklore to analysis, SW components and product lines: from bu

systems and technology, Software engineering survey)

September 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 5

Publisher: ACM Press

Full text available: [pdf\(1.98 MB\)](#)

Additional Information: [full citation](#), [index terms](#)

14 Risks to the public in computers and related systems

Peter G. Neumann

April 1993 **ACM SIGSOFT Software Engineering Notes**, Volume 18 Issue 2



Publisher: ACM Press

Full text available: [pdf\(1.60 MB\)](#)

Additional Information: [full citation](#), [citations](#), [index terms](#)

15 Illustrative risks to the public in the use of computer systems and related technology

Peter G. Neumann

January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1

Publisher: ACM Press

Full text available: [pdf\(2.54 MB\)](#)

Additional Information: [full citation](#)

16 Launching the new era

Kazuhiro Fuchi, Robert Kowalski, Koichi Furukawa, Kazunori Ueda, Ken Kahn, Takashi Chikayama,

March 1993 **Communications of the ACM**, Volume 36 Issue 3

Publisher: ACM Press

Full text available: [pdf\(3.45 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)

17 Illustrative risks to the public in the use of computer systems and related technology

Peter G. Neumann

January 1994 **ACM SIGSOFT Software Engineering Notes**, Volume 19 Issue 1

Publisher: ACM Press

Full text available: [pdf\(2.24 MB\)](#)

Additional Information: [full citation](#), [citations](#), [index terms](#)

18 Innovation, management & strategy: Business process redesign for effective e-commerce

M. H. Jansen-Vullers, M. Netjes, H. A. Reijers

March 2004 **Proceedings of the 6th international conference on Electronic commerce ICEC**

Publisher: ACM Press

Full text available: [pdf\(322.14 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Many companies have found out the hard way that successful e-commerce requires more than a web presence. Existing business processes must be seamlessly integrated with the new, electronic interaction with suppliers and customers. Despite this insight, little research has focused on the transformation of doing business to achieve the presumed benefits of e-commerce. This paper offers both qualitative and quantitative support for redesigning business processes in the context ..

Keywords: BPR, e-commerce, process models, service industry

19 Illustrative risks to the public in the use of computer systems and related technology

Peter G. Neumann

January 1992 **ACM SIGSOFT Software Engineering Notes**, Volume 17 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.65 MB\)](#)

Additional Information: [full citation](#), [citations](#), [index terms](#)

20 Business process re-design in the academic environment: a methodical approach to maximize the impact of scarce information technology support resources

Roger W. Harris

November 1993 **Proceedings of the 21st annual ACM SIGUCCS conference on User services '93**

Publisher: ACM Press

Full text available: [!\[\]\(be6c423ea45b0b2f0cf48f01786576dc_img.jpg\) pdf\(2.06 MB\)](#)

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Terms used: receiving a goal AND feedback AND student AND invoice AND loan AND insurance AND rules AND paragraph AND deli

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Relevance

21 Risks to the public: Risks to the public

 Peter G. Neumann

 November 2006 **ACM SIGSOFT Software Engineering Notes**, Volume 31 Issue 6

Publisher: ACM Press

 Full text available:  pdf(374.71 KB)

 Additional Information: [full citation](#), [abstract](#)

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM Committee on C and Public Policy), plus personal contributions by others, as indicated. Opinions expressed are in rather than organizational, and all of the usual disclaimers apply. We address problems relating software, hardware, people, and other circumstances relating to computer systems. To economize space, we include pointers to items in the online Risks Forum: (R i j) denotes RISKS vol i number j.

22 Information technology and dataveillance

 Roger Clarke

 May 1988 **Communications of the ACM**, Volume 31 Issue 5

Publisher: ACM Press

 Full text available:  pdf(1.89 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Data surveillance is now supplanting conventional surveillance techniques. With this trend come monitoring methods such as personal dataveillance and mass dataveillance that require more effective safeguards and a formal policy framework.

23 Digital library communities and change: Cross-cultural usability of the library metaphor

 Elke Duncker

 July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries JCDL**
Publisher: ACM Press

 Full text available:  pdf(202.45 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Computing metaphors have become an integral part of information systems design, yet they are rooted in cultural practices. This paper presents an investigation of the cross-cultural use and usage of such metaphors by studying the library metaphor of digital libraries in the cultural context of the indigenous population of New Zealand. The ethnographic study examines relevant features of the culture, their form of knowledge transfer and their use of physical and digital ...

Keywords: computing metaphor, cross-cultural usability, digital library, globalization, indigenous localization

24 Dependency-Based Construction of Semantic Space Models

Sebastian Padó, Mirella Lapata

 June 2007 **Computational Linguistics**, Volume 33 Issue 2

Publisher: MIT Press

Full text available: [pdf\(283.62 KB\)](#)

Additional Information: [full citation](#), [abstract](#)

Traditionally, vector-based semantic space models use word co-occurrence counts from large corpora to represent lexical meaning. In this article we present a novel framework for constructing semantic spaces that takes syntactic relations into account. We introduce a formalization for this class of models, which allows linguistic knowledge to guide the construction process. We evaluate our framework on a range of tasks relevant for cognitive science and natural language processing: semantic pr...

25 Meeting the crisis in computer science

 Stephen S. Yau, Robert W. Ritchie, Warren Semon, Joseph Traub, Andries Van Dam, Stanley Winkler
December 1983 **Communications of the ACM**, Volume 26 Issue 12

Publisher: ACM Press

Full text available: [pdf\(536.45 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#)

Participants in the 1982 Snowbird Conference reassessed the problems in computer science education and recommended steps for improvement.

26 Intentional software

 Charles Simonyi, Magnus Christerson, Shane Clifford
October 2006 **ACM SIGPLAN Notices , Proceedings of the 21st annual ACM SIGPLAN conference on Object-oriented programming systems, languages, and applications OOPSLA**
Volume 41 Issue 10

Publisher: ACM Press

Full text available: [pdf\(362.40 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Wysiwyg editors simplified document creation by separating the document contents from the looks, thus automating the re-application of the looks to changing contents. In the same way Intentional Software simplifies software creation by separating the software contents in terms of their various domains of application, the implementation of the software and by enabling automatic re-generation of the software as the requirements change. This way, domain experts can work in parallel with programmers in their respective domains.

Keywords: generative programming, intentional software

27 The experimental analysis of information security management issues for online financial services

Mukul Gupta, Alok R. Chaturvedi, Shailendra Mehta, Lorenzo Valerio

December 2000 **Proceedings of the twenty first international conference on Information systems ICIS '00**

Publisher: Association for Information Systems

Full text available: [pdf\(228.80 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

28 The winter simulation conference: perspectives of the founding fathers

 Michel Araten, Harold G. Hixson, Austin C. Hoggatt, Philip J. Kiviat, Michael F. Morris, Arnold Ocker, Alan Reitman, Joseph M. Sussman, James R. Wilson
December 1992 **Proceedings of the 24th conference on Winter simulation WSC '92**

Publisher: ACM Press

Full text available: [pdf\(2.83 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

29 The emerging role of electronic marketplaces on the Internet

 Yannis Bakos
August 1998 **Communications of the ACM**, Volume 41 Issue 8

Publisher: ACM Press

Full text available: [pdf\(367.61 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

30 Business applications of unstructured text

 William L. Kuechler

October 2007 **Communications of the ACM**, Volume 50 Issue 10

Publisher: ACM Press

Full text available:  pdf(143.02 KB)  html Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
(32.95 KB)

Crunching unstructured text rather than numbers is the basis for a new class of high-value applications ranging from regulatory compliance monitoring to business intelligence.

31 Compiler construction: an advanced course

F. L. Bauer, F. L. De Remer, M. Griffiths, U. Hill, J. J. Horning, C. H. A. Koster, W. M. McKeeman, P. W. M. Waite, G. Goos, J. Hartmanis

January 1974 Book

Publisher: Springer-Verlag New York, Inc.

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

The Advanced Course took place from March 4 to 15, 1974 and was organized by the Mathematics Institute of the Technical University of Munich and the Leibniz Computing Center of the Bavarian Academy of Sciences, in co-operation with the European Communities, sponsored by the Ministry for Research and Technology of the Federal Republic of Germany and by the European Research Office, London.

32 ACM forum

 Robert L. Ashenhurst

April 1988 **Communications of the ACM**, Volume 31 Issue 4

Publisher: ACM Press

Full text available:  pdf(751.46 KB) Additional Information: [full citation](#), [index terms](#)

33 Applying object-oriented analysis and design

 Jean-Marc Nerson

September 1992 **Communications of the ACM**, Volume 35 Issue 9

Publisher: ACM Press

Full text available:  pdf(2.54 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [reviews](#)

Keywords: analysis, flexible software architecture, object-oriented notation and methodology, object-oriented software engineering, reliable component reusability

34 Rethinking office automation

 Margrethe H. Olson, Jon A. Turner

July 1986 **ACM SIGMIS Database**, Volume 17 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.04 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

The debate regarding the impact of technology on work organization and the quality of work life momentum as a result of office automation and its influences on large numbers of "office" jobs. It argues that current approaches to implementation of office automation technology are based on assumptions about both technology and work organization. The result has been systems which fail to live up to the claims of dramatic increases in productivity.

35

An affordable approach to an architectural computer system

Donald E. Bergeson, Robert Babbin

January 1977 **Proceedings of the 14th conference on Design automation DAC '77**

Publisher: IEEE Press

Full text available:  pdf(968.68 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Analysis of information flows, and a review of periodically performed tasks in an architect's office many functions that could be expedited and enhanced with the aid of a major restructuring that include a carefully planned, modular, computer system. Staged investment in hardware and soft recommended. A conservative approach indicates computer utilization first in record keeping, th engineering and text manipulation, and finally in graphics and simulat ...

36 Essays in computing science

C. A. R. Hoare

January 1989 Book

Publisher: Prentice-Hall, Inc.

Full text available:  pdf(20.91 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [review](#)

Charles Antony Richard Hoare is one of the most productive and prolific computer scientists. Thi contains a selection of his published papers. There is a need, as in a Shakespearian Chorus, to o apology for what the book manifestly fails to achieve. It is not a complete 'collected works'. Sele between papers of this quality is not easy and, given the book's already considerable size, some decisions as to what to omit have had to be made. Pity the editor weighin ...

37 Component-based e-commerce: assessment of current practices and future directions

 Martin Bichler, Arie Segev, J. Leon Zhao

December 1998 **ACM SIGMOD Record**, Volume 27 Issue 4

Publisher: ACM Press

Full text available:  pdf(759.85 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Component-based e-commerce technology is a recent trend towards resolving the e-commerce i at both system and application levels. Instead of delivering a system as a prepacked monolith s) containing any conceivable feature, component-based systems consist of a lightweight kernel to features can be added in the form of components. In order to identify the central problems in co based e-commerce and ways to deal with them, we investigate prototype ...

38 Workshop and conference summaries: Intractable ERP: a comprehensive analysis of failed enterprise-resource-planning projects

 Christian Vogt

March 2002 **ACM SIGSOFT Software Engineering Notes**, Volume 27 Issue 2

Publisher: ACM Press

Full text available:  pdf(789.20 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

An enterprise-resource-planning system --- or ERP system, for short --- is by definition "any sof system designed to support and automate the business processes of medium and large business Integrated ERP systems became popular in the early 1990's. Single monolithic pieces of software systems promised to do away with inconsistent data, incompatible formats, and uncooperative applications. Still, ERP systems come with their own, unexpected difficulties. Their tremendous g

Keywords: COTS, MBASE, SAP R/3, enterprise resource planning, hidden costs

39 Consumer difficulties with computerized transactions: an empirical investigation

 T. D. Sterling

May 1979 **Communications of the ACM**, Volume 22 Issue 5

Publisher: ACM Press

Full text available:  pdf(757.74 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The prevalence with which errors may be encountered by the end targets of a computerized pro assessed. How many and what type of errors occur? How easily are they corrected? What is the consumers to errors—to a failure to correct them? What can be learned by designers of large ma

packages from such data? Results show that with the present state of the art, approximately 40 individuals (or households) having aver ...

Keywords: billing errors, consumers, errors, management systems, systems errors

40 [Information Systems in Perspective](#)

 J. D. Aron

December 1969 **ACM Computing Surveys (CSUR)**, Volume 1 Issue 4

Publisher: ACM Press

Full text available:  pdf(2.22 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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41 E-government: G2C e-government: Shanghai social security and citizen services

Pengzhu Zhang, Fangfang Xu, Luquan Jiang, Ruyi Ge

August 2005 **Proceedings of the 7th international conference on Electronic commerce ICEC**

Publisher: ACM Press

Full text available: [pdf\(543.05 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Digital government strategy has been carried out in many countries as a means of improving the public services. This article studies the Shanghai social security and citizen services system to explore major advantages of digital government and specifies the Medicare subsystem of the system to illustrate the process reengineering involved in digital government programs.

Keywords: digital government, process reengineering, public services

42 The MAC-AT-HOME student microcomputer loan program

B. C. Brenner

October 1989 **Proceedings of the 17th annual ACM SIGUCCS conference on User Services SIGUCCS '89**

Publisher: ACM Press

Full text available: [pdf\(911.57 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

43 Semantic web ontologies, rules, and services track: Organizing technology enhanced learning

Markus Schmees

August 2006 **Proceedings of the 8th international conference on Electronic commerce: The electronic commerce: innovations for conquering current barriers, obstacles and limitations in conducting successful business on the internet ICEC '06**

Publisher: ACM Press

Full text available: [pdf\(706.59 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Organizational units like courses have different agendas in technology enhanced learning. They are often limited by organizational regulations, obtain sustainable learning results, and limit incurring expenses. Various software systems support educational activities, but cannot observe these rules generally. This article presents a way to integrate concepts of electronic commerce for this purpose. Basic idea is to implement organizational rules with help of involved learning applications. For this purpose ...

Keywords: business process integration, electronic commerce, electronic learning, learning management system, organizational rules, technology enhanced learning

45 **Web for data mining: organizing and interpreting the discovered rules using the Web**

 Yiming Ma, Bing Liu, Ching Kian Wong
June 2000 **ACM SIGKDD Explorations Newsletter**, Volume 2 Issue 1

Publisher: ACM Press

Full text available:  pdf(8.41 MB)

Additional Information: [full citation](#), [citations](#), [index terms](#)

Keywords: association rules, interestingness, post-processing, rule understanding, the Web

45 **Self**

 David Ungar, Randall B. Smith

June 2007 **Proceedings of the third ACM SIGPLAN conference on History of programming languages HOPL III**

Publisher: ACM Press

Full text available:  pdf(1.70 MB)

Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [index terms](#)

The years 1985 through 1995 saw the birth and development of the language Self, starting from by the authors at Xerox PARC, through first implementations by Ungar and his graduate student Stanford University, and then with a larger team formed when the authors joined Sun Microsystems Laboratories in 1991. Self was designed to help programmers become more productive and creative giving them a simple, pure, and powerful language, an implementation that combined ease of use

Keywords: Self, adaptive optimization, cartoon animation, dynamic language, dynamic optimization, exploratory programming, history of programming languages, morphic, object-oriented language, programming environment, prototype-based programming language, virtual machine

46 **The case of the killer robot (part 2)**

 Richard G. Epstein

December 1994 **ACM SIGCAS Computers and Society**, Volume 24 Issue 4

Publisher: ACM Press

Full text available:  pdf(2.22 MB)

Additional Information: [full citation](#), [citations](#), [index terms](#)

47 **Level II technical support in a distributed computing environment**

 Tim Leehane

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services '96**

Publisher: ACM Press

Full text available:  pdf(5.73 MB)

Additional Information: [full citation](#), [references](#), [index terms](#)

48 **Special section: Reasoning about structure, behavior and function**

 B. Chandrasekaran, Rob Milne

July 1985 **ACM SIGART Bulletin**, Issue 93

Publisher: ACM Press

Full text available:  pdf(5.13 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The last several years' of work in the area of knowledge-based systems has resulted in a deeper understanding of the potentials of the current generation of ideas, but more importantly, also at the limitations and the need for research both in a broader framework as well as in new directions. The following ideas seem to us to be worthy of note in this connection.

49

Making connections: first year transition for computer science and software engineering students

Alistair Moffat, Baden Hughes, Harald Søndergaard, Paul Gruba

January 2005 **Proceedings of the 7th Australasian conference on Computing education - Vo ACE '05**

Publisher: Australian Computer Society, Inc.

Full text available: [pdf\(143.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

During the last decade, an increasing emphasis has been placed on the need for carefully planned transition programs to help first-year students integrate into university. In this paper we critically evaluate our experiences in designing and running successive transition programs for Computer Science and Software Engineering students. Over the last three years we have trialled several models. At present our program requires all entering students to be enrolled in a transition subject, "Making Computer ...

50 Mindstorms: children, computers, and powerful ideas

Seymour Papert

January 1980 Book

Publisher: Basic Books, Inc.

Full text available: [pdf\(12.45 MB\)](#) Additional Information: [full citation](#), [abstract](#), [cited by](#), [index terms](#)

The Gears of My Childhood

Before I was two years old I had developed an intense involvement with automobiles. The names of parts made up a very substantial portion of my vocabulary: I was particularly proud of knowing the parts of the transmission system, the gearbox, and most especially the differential. It was, of course, many years later before I understood how gears work; but once I did, playing with gears became a favorite pastime. I loved rotating circular objects ...

51 Out in the world--experiences beyond the desktop: Writing the BoK: designing for the networked learning environment of college students

Paul Burke, Sue Nguyen, Pen-Fan Sun, Shelley Evenson, Jeong Kim, Laura Wright, Nabeel Ahmed, Patel

November 2005 **Proceedings of the 2005 conference on Designing for User eXperience DUX**

Publisher: AIGA: American Institute of Graphic Arts

Full text available: [pdf\(1.98 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Some believe that the fundamental pedagogy of foreign language instruction has existed for hundreds of years. [40] That said, converting a class from a traditional course to an online solution cannot be as simple as posting a textbook online and offering periodic subject tests because it does not correctly model the traditional language learning experience. It removes the community-driven interactions of a classroom. Language is acquired through a combination of reading, writing, speaking and listening ...

Keywords: PDA/Mbl, analysis, business case, business strategy, concept design, content, design, experience strategy, games, graphic design, handheld devices and mobile computing, informatic architecture, interaction design, interdisciplinary design, marketing / market research, participatory design, process improvement, product design, product management, prototyping, responsive environments, speech, system design, usability research, user experience, user interface design, user research, user studies, user-centered design / human-centered design, visual design, visualization, web service

52 Making parallel programming accessible to inexperienced programmers through cooperative learning

Lori Pollock, Mike Jochen

February 2001 **ACM SIGCSE Bulletin , Proceedings of the thirty-second SIGCSE technical symposium on Computer Science Education SIGCSE '01**, Volume 33 Issue 1

Publisher: ACM Press

Full text available: [pdf\(143.78 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes how we utilized cooperative learning to meet the practical challenges of teaching parallel programming in the early college years, as well as to provide a more real world context for the course. Our main contribution is a set of cooperative group activities for both inside and outside the classroom, which are targeted to the computer science discipline, have received very positive student feedback, are easy to implement, and achieve a number of learning objectives beyond knowledge ...

53 Special issue: AI in engineering

D. Sriram, R. Joobhani

April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available:  pdf(8.79 MB)

Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this reflected in the sixty papers received from over six countries. About half the papers were received computer network.

54 The USC system factory project

W. Scacchi

January 1989 **ACM SIGSOFT Software Engineering Notes**, Volume 14 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.99 MB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Developing the next generation of large-scale software systems will change the patterns of work development organizations. We therefore expect the major systems engineering problems to be require *organizational solutions* that accomodate *advanced software development tools*, *flexible manufacturing techniques for system life cycle engineering*, and *knowledge-intensive strategies managing large system development projects*. Over the past seven years, we h ...

55 Objects with roles

B. Pernici

March 1990 **ACM SIGOIS Bulletin , Proceedings of the ACM SIGOIS and IEEE CS TC-OA conference on Office information systems**, Volume 11 Issue 2-3

Publisher: ACM Press

Full text available:  pdf(921.75 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The use of object-oriented conceptual models for modeling office applications and information sy discussed. A model for describing object behavior based on the concept of role is presented. Role one to describe different perspectives for object evolution. For each role, relevant characteristics role properties, role states, messages, and role-state transition rules and constraints are defined implications of considering several roles in parallel for an object are ...

56 Applications of machine learning and rule induction

Pat Langley, Herbert A. Simon

November 1995 **Communications of the ACM**, Volume 38 Issue 11

Publisher: ACM Press

Full text available:  pdf(554.28 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Machine learning is the study of computational methods for improving performance by mechaniz acquisition of knowledge from experience. Expert performance requires much domain-specific kr and knowledge engineering has produced hundreds of AI expert systems that are now used regul industry. Machine learning aims to provide increasing levels of automation in the knowledge eng process, replacing much time-consuming human activity with automatic tec ...

57 The high wire balancing act of the IS project director

Vital Roy, Carmen Bernier, Lucie Léveillé

January 2006 **ACM SIGMIS Database**, Volume 37 Issue 1

Publisher: ACM Press

Full text available:  pdf(884.02 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The implementation of a cross-functional enterprise system requires a more sustained and comp change management program than does classical Information System (IS) application developm tools and techniques used in such projects will presumably differ accordingly, as will the roles an responsibilities of each project contributor. The objective of this exploratory research is to elucid main managerial roles played by internal project directors in the implementation of a cr ...

Keywords: MIS development projects, case study, project directors, roles

58 Computing curricula 2001

 September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available:  pdf(613.63 KB)  html Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
(2.78 KB)

59 ITiCSE 2002 working group report: Exploring the role of visualization and engagement in computer science education

 Thomas L. Naps, Guido Rößling, Vicki Almstrum, Wanda Dann, Rudolf Fleischer, Chris Hundhausen, Korhonen, Lauri Malmi, Myles McNally, Susan Rodger, J. Ángel Velázquez-Iturbide
June 2002 **ACM SIGCSE Bulletin , Working group reports from ITiCSE on Innovation and technology in computer science education ITiCSE-WGR '02**, Volume 35 Issue 2

Publisher: ACM Press

Full text available:  pdf(414.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Visualization technology can be used to graphically illustrate various concepts in computer science. We argue that such technology, no matter how well it is designed, is of little educational value unless it engages learners in an active learning activity. Drawing on a review of experimental studies of visualization effectiveness, we motivate this position against the backdrop of current attitudes and best practices with respect to visualization use. We suggest a new taxonomy of learner engagement ...

60 A simulation analysis of cash flow attenuation under alternative financial operating structures

 Robert E. Markland

January 1971 **Proceedings of the 5th conference on Winter simulation WSC '71**

Publisher: ACM Press

Full text available:  pdf(970.53 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents the results of a simulation analysis of the stochastic processes which determine cash flow attenuation under alternative financial operating structures. The environment of the study is a rapidly expanding retailing firm, which must consider a myriad of alternative operating structures in its embryonic development. Simulation is employed to determine risk-return profiles for the various alternatives. Efficiency frontiers are next computed for each of five measures ...

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